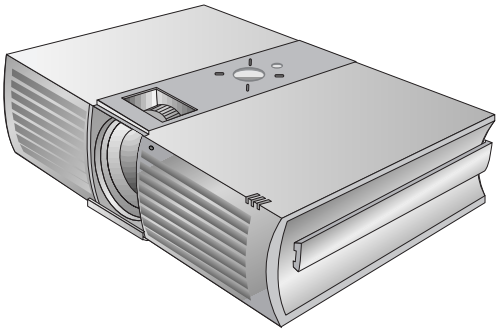
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

DLP PROJECTOR
SERVICE MANUAL

CHASSIS : RE-048A

MODEL : RD-JT91

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.
For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.
Measure the high voltage.
The meter reading should indicate
23.5 ¡ 1.5KV: 14-19 inch, 26 ¡ 1.5KV: 19-21 inch,
29.0 ¡ 1.5KV: 25-29 inch, 30.0 ¡ 1.5KV: 32 inch
If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

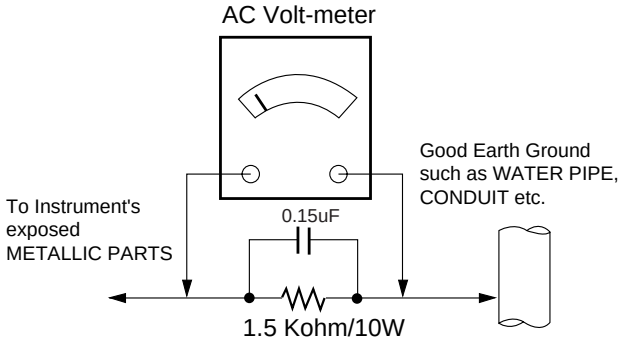
Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.
NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the ieads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 ¡Æ to 600 ¡Æ.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Throughly clean the surfaces to be soldered. Use a mall wirebristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500 ¡Æ to 600 ¡Æ)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuit-board printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500 ¡Æ to 600 ¡Æ)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.

d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

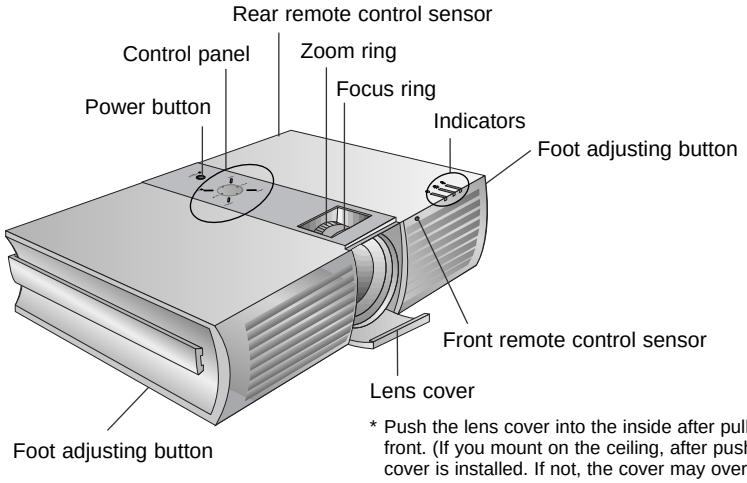
1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

CONTROL DESCRIPTIONS

Names of parts

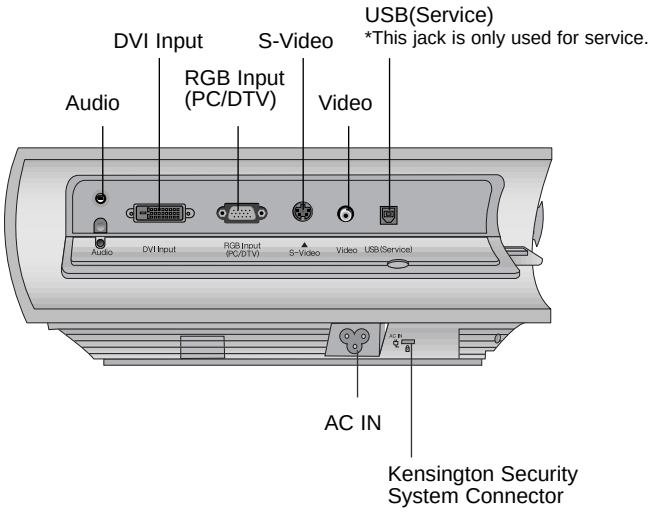
Main Body

* The projector is manufactured using high-precision technology. You may, however, see on the Projector screen tiny black points and/or bright points (red, blue, or green). This can be a normal result of the manufacturing process and does not always indicate a malfunction.

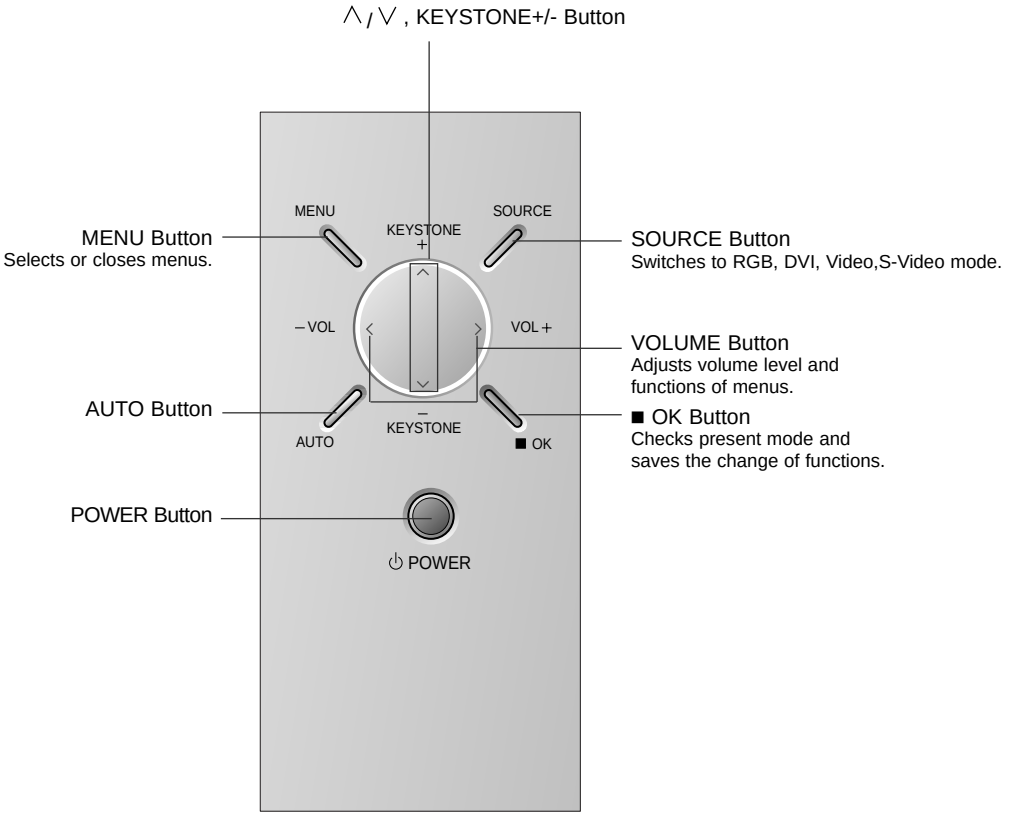


* Push the lens cover into the inside after pulling it open into the front. (If you mount on the ceiling, after pushing the cover, the lens cover is installed. If not, the cover may overlap projecting lens.)

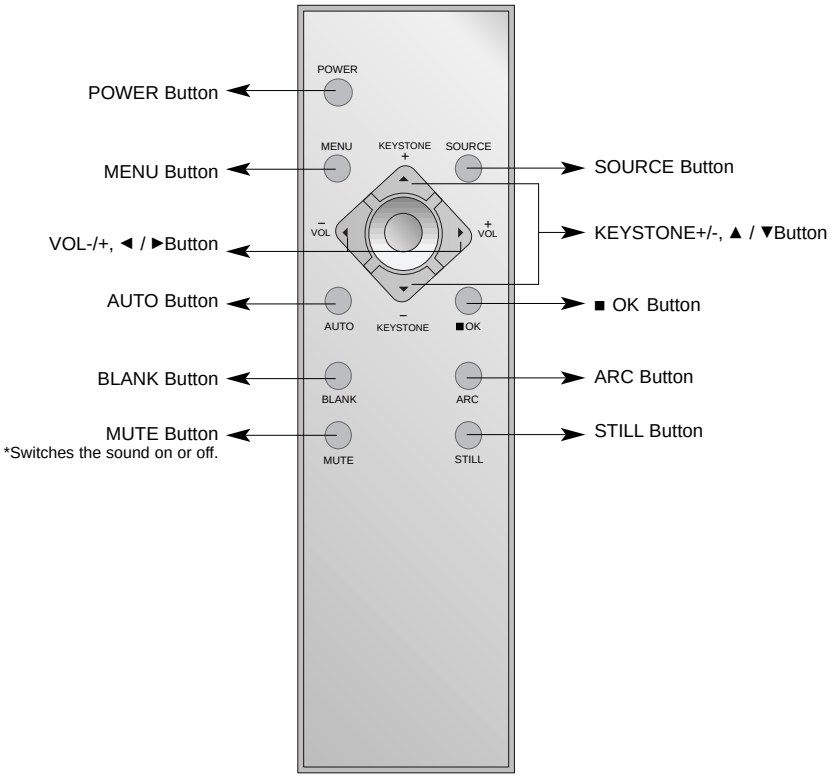
Connecting Part



Control Panel

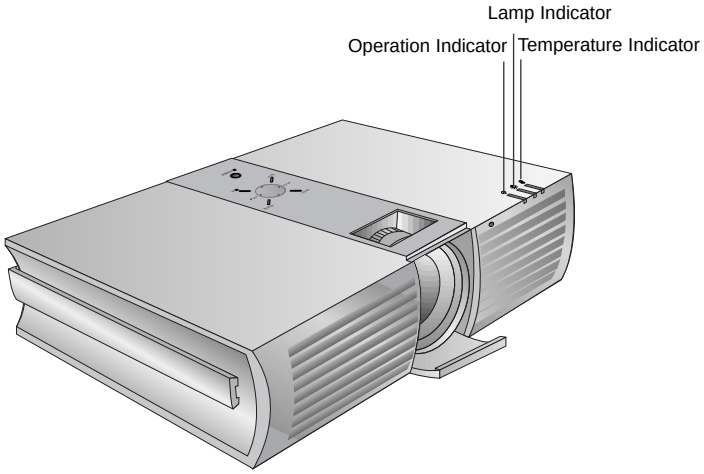


Remote Control



Projector Status Indicators

* Lamp Indicator, operation indicator and temperature indicator at the top of the projector show the user the operating status of the projector.



Operation Indicator	Orange	Standby.
	Green(flashing)	The fan is running while the lamp preheats.
	Green	The lamp is preheated and on.
	Orange(flashing)	Projector lamp is cooling as power out (2 minutes)
	Off	Power off.
Lamp Indicator	Red	Projector lamp is reaching the end of its life and needs to be replaced with a new lamp. (over 2000 hours)
	Red(flashing)	The projector has trouble in the lamp or around it at power-on. Retry Power On again later. If lamp indicator is red (flashing) again, contact the service center.
	Green(flashing)	The lamp cover is not closed.
Temperature Indicator	Orange	The projector is in a high temperature condition. Turn off the power to the unit and check for proper ventilation.
	Red	The projector is turned off due to the unit overheating.
	Red (flashing)	Power has turned off due to problem with the internal cooling fan. The fan is not operating.

REPLACING OF LAMP

The projector lamp should lasts for about 2000 hours.You can see the lamp hours time in the selecting function section.You must replace the lamp when one or more of the following apply.

- The projected image gets darker or starts to become distorted.
- The lamp indicator is red.(Red,flashing alternately)
- The message " LAMP REPLACE" appears on the screen when turning the projector lamp on.

1. Turn off the projector and unplug the power cable.
(allow the lamp to cool for more than 1 hour.)

2. Stand the projector on its side as below so that you can easily access the lamp cover.

3. Remove the two retaining screws on the lamp cover with a screwdriver and then lift off the lamp cover.

4. After lifting the lamp cover off, remove the two retaining screws on the lamp case with a screwdriver.

5. Lift up the fixed wire handle of the lamp.

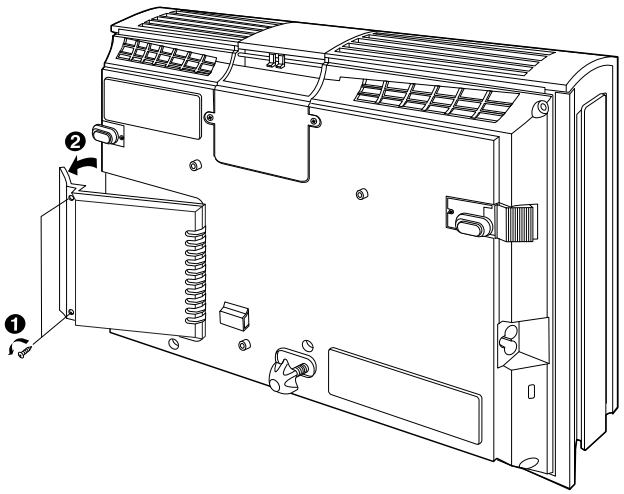
6. Pull out the handle slowly and remove the lamp case.

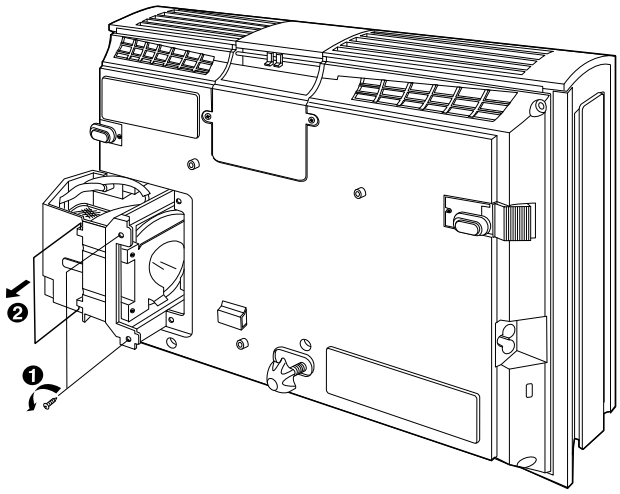
7. Insert the new lamp gently into the correct position. Make sure it is inserted correctly.

8. Tighten the screws you removed in step 4.

9. Replace the lamp cover and tighten the cover screws. (Make sure the lamp cover is securely fastened.
If the lamp cover is open, the lamp indicator flashes green and the projector will not turn on.)

Bottom of the Projector





SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

■ Scope

This standard can be applied to the LCD Projector related to RE-048A Chassis.

■ Test Condition

1) Temperature : 25°C¡ 5°C (Only CST is 40°C¡ 2°C)
2) Relative Humidity: 65¡ 10%
3) Power Voltage: Standard input voltage (AC 100 - 240V, 50/60Hz)
4) Use the parts only designated in B.O.M.,PARTS SPEC.,or drawings.
5) Follow each drawing or spec for spec and performance of parts,based upon P/N of B.O.M
6) Warm up TV set for more than 30min. before the measurement.

■ Test and Inspection Method

1) performance:Follow the Standard of LG TV test
2) RCA JACK performance: Follow the standard of LG
3) Standards of Etc requirement
SAFETY:CE (EN55020), Electric wave:CB (EN55013)

■ General Specification

No.	Item	Specification				Remark
		Min	Typ	Max	Unit	
1	Video input applicable system	NTSC M				3.579545 / 60Hz
		NTSC 4.43				4.433618 / 60Hz
		PAL				4.433618 / 50Hz
		PAL M				3.575611 / 60Hz
		PAL N				3.582056 / 50Hz
		SECAM				4.286 / 50Hz
		NTSC-PB				4.433618 / 60Hz
2	Power	SMPS				
3	Input Voltage	AC 100(-10%) - 240(+6%)V,50/60Hz				
4	Market	World wide				
5	Screen size	4:3 / 16:9				
6	Aspect ratio	4 : 3				
7	Operating Temperature	0		40	deg	
8	Operating Humidity			85	%	
9	Storage Temperature	-20		60	deg	
10	Storage Humidity			85	%	

■ Feature and function

No.	Item	Specification				Remark
		Min	Typ	Max	Unit	
1	REMOCON	NEC Code				
2	DVI Input	1	Digital RGB			DVI-D
3	RGB Input	1	Separate			D-Sub 15 pin
4	Component input	1	Y, P_B, P_R 480i, 480p, 720p, 1080i, 576i,576p			D-Sub 15 pin
5	Composite input	1	480i, 576i			RCA jack(Yellow)
6	S-video input	1	480i,576i			S-VIDEO jack
7	Audio input	1				PC-audio jack
8	USB Port	1				USB jack (only for download)
9	Local Key	Power, Menu, OK, Vol(+,-) Source, keystone+/ keystone, auto				
10	Picture, Gamma	Normal/ Film/ Sports				
11	Picture, User Control	Contrast/ Brightness/ Color/ Tint/ Sharpness				
12	ACC	Normal/ Warm/ Cool				
13	Display mode	4:3 / 16:9				
14	Sound	1W mono				
15	OSD Language	Korean/ english/ Deutsch/ Italiano/ Espanol / Chinese/ Japanese/ france/ Swedish				

ADJUSTMENT INSTRUCTION

1. Application Object

This instruction is for the application to the DLP Projector (CHASSIS : RE-048A).

2. Notes

(1) The power source insulation of this DLP Projector is not charging type and you may not use the transformer for insulation. It is advised to use an insulation transform between the power supply cable and power input of the set to protect the test equipment.
(2) The adjustment must be performed under the correct sequence.
(3) The adjustment must be performed in the circumstance of 25±5˚C of temperature and 65±10% of relative humidity.
(4) The input voltage of the receiver must keep AC 110V, 60Hz during adjustment.
(5) The set must be on for 5 minutes prior to any adjustment. After receiving possible 100% white pattern, it is operated preliminarily.

3. Accessing the Adjustment Mode

(1) Pressing the instart key on the service remote will open or close the service menu.

(2) As shown <Fig. 1>, use the (CH+ (▲),CH- (▼)), select to item press the ENTER or VOLUME key to enter the item you wish to adjust.

1. Test Pattern ▶
2. Optic Check ▶
3. Temperature
4. RGB Gain/Off Set
5. Component Gain/Off Set
6. White Balance
7. CWI
8. Lamp Time Reset
9. White Peaking
10. PWM

<Fig.3> OSD of Adjustment Mode

(3) Press the Instart key to exit the service menu.
(4) Preparation for Adjustment
1) Power is connected in set to be power on.
2) Do heat run 5minutes.

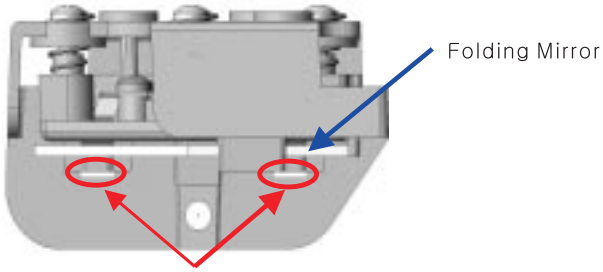
4. Folding Mirror Adjustment

4-1. Before adjusting, check the position of Folding MIrror

Check the position of Folding Mirror in the base of up / down / left / right surface. (Fig. 4-1)

(1) Check the Lower Position

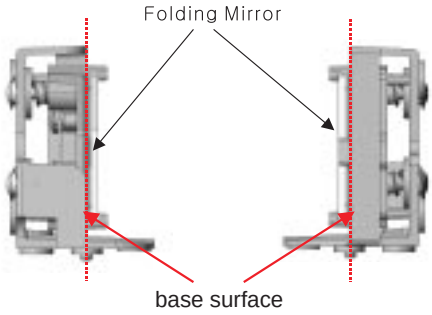
As shown <Fig. 4-1>, check the mirrors lower position in the middle of the hole, located under the holder.



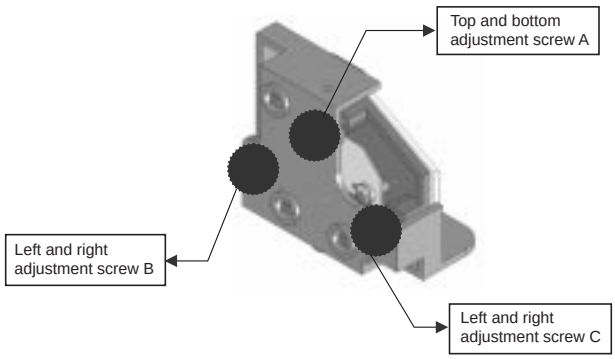
<Fig.4-1> Check the Lower Position of Folding Mirror

(2) Check the Left / Right Position

After checking the lower position, as shown <Fig. 4-2>, fix the sides so they are vertically aligned with the base surface.



<Fig.4-2> Check the Left / Right Position of Folding Mirror



<Fig.4-3> Illuminator Adjustment Part by Folding Mirror

4-2. Illuminator Adjustment Sequence

Check the full white screen refer to (Fig 4-3) and make adjustments in the following sequence.

(1) Up and Down Adjustment

1) Mark screw (A) in its original position. Turn screw (A) up / down adjustment to the left and mark where the image is aligned.
2) Mark screw (A) in its original position. Turn screw (A) up / down adjustment to the right and mark where the image is aligned.
3) Turn screw (A) up / down adjustment to the right / left and mark where the image is aligned. Fix the adjustment screw in position.

Step 1 Step 2 Step 3

<Fig.4-4> Illuminator up / down Adjustment Sequence

(2) Left and Right Adjustment 1

1) Mark screw (B) in its original position. Turn screw (B) Left / Right adjustment to the right and mark where the image is aligned.
2) Mark screw (B) in its original position. Turn screw (B) Left / Right adjustment to the left and mark where the image is aligned.
3) Turn screw (B) Left / Right adjustment to the right / left and mark where the image is aligned. Fix the adjustment screw in position.

Step 1 Step 2 Step 3

<Fig.4-5> Illuminator Left/Right Adjustment Sequence 1

(3) Left and Right Adjustment 2

1) Mark screw (C) in its original position. Turn screw (C) up / down adjustment to the right and mark where the image is aligned.
2) Mark screw (C) in its original position. Turn screw (C) up / down adjustment to the left and mark where the image is aligned.
3) Turn screw (C) up / down adjustment to the right / left and mark where the image is aligned. Fix the adjustment screw in position.

Step 1 Step 2 Step 3

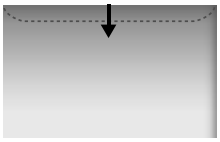
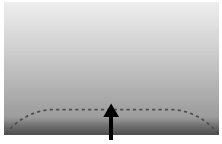
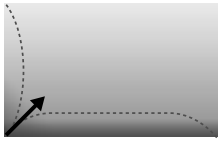
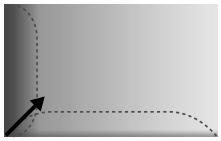
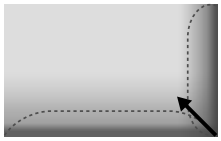
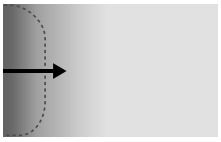
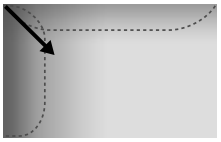
<Fig.4-6> Illuminator Left/Right Adjustment Sequence 2

(4) Final Adjustment

Repeat turn screw (C) up / down adjustment to the right / left and mark where the image is aligned. Fix the adjustment screw in position. 1), 2), 3) adjustment twice and find the optimum position. Check the image with the naked eye for optimum alignment.

4-3. Illuminator Phenomenon Adjustment

Illuminator goes down direction ↑ Illuminator goes down area

Adjustment part	Screw direction	Screen state		Description
		Initial state	State after adjusting	
Up/down screw A	Right (tighten direction)			At first, upside illuminator goes down and right illuminator also goes down in detail.
	Left (loosen direction)			At first, downside illuminator goes down and left illuminator also goes down.
left/right screw B	Right (tighten direction)			At first, left illuminator goes down and downside illuminator also goes down.
	Left (loosen direction)			At first, right illuminator goes down and upside illuminator also goes down.
left/right screw C	Right (tighten direction)			At first, left illuminator goes down and downside illuminator also goes down.
	Left (loosen direction)			At first, right illuminator goes down and upside illuminator also goes down.

5. Caution for DMD (Digital Micro-mirror Device)

5-1. Caution for DMD ESD

(1) Connector the grounding to prevent a damage of ESD (Electrostatic Discharge) when handing the DMD.
(2) Wear a wrist strap to connect the ESD grounding in flesh necessarily.
(3) Connect the ESD ground to workstation and an electric conductor.
(4) Save the DMD after getting rid of a static electricity. Keep it at an exclusive case when moving it When grounding, open the case.
(5) Put on gloves for preventing static electricity.
(6) All work is done at static free location. Attach the tape or remove a dust on the DMD front or DMD back pin

5-2. Caution for DMD Clean

(1) Follow the procedure and caution to prevent the screen from being scratched.
(2) When DMD glass stains with dust, polish the front and back DMD glass with soft cloth. Then, do it again after rotating 180 degree the DMD. If necessary, keep under observation.
(3) Don't clean the DMD with the high pressure. The static electricity and pressure will damage the DMD.

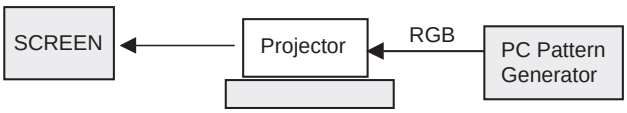
6. RGB Offset/Gain Adjustment

6-1. Required Test Equipment

(1) Pattern Generator 1EA (For analog RGB)
(2) Remote control 1EA

6-2. Setting of the device

Set the equipment as <Fig. 6-1>.



<Fig.6-1> Device setting diagram for RGB offset/gain adjustment

6-3. Preparation for Adjustment

(1) Connect the pattern generator as <Fig. 6-1>.
(2) Adjust pattern generator to SVGA 60Hz.
(3) Press the Input selection button to select the RGB input.

6-4. Sequence of Adjustment

(1) Select the white/back pattern for pattern generator as <Fig. 6-2>. (SVGA 60Hz)

<Fig.6-2> Window Pattern

(2) Press the instart button on the service remote control to select RGB offset/gain set in Adjustment menu.
(3) Automatic Adjustment : Press the enter button in RGB offset/gain set of Adjustment menu. (Adjustment is operated by system Micom automatically)

7. COMPONENT Offset/Gain Adjustment

(1) Select 75% color bar of <Fig. 7> for PC Pattern Generator pattern. (Resolution 480p)

<Fig. 7>

(2) Press the instart button on the remote control to select component offset/gain set in the adjustment menu.
(3) Automatic Adjustment : Press the enter button in component offset/gain set of Adjustment menu. (Adjustment is operated by system Micom automatically)

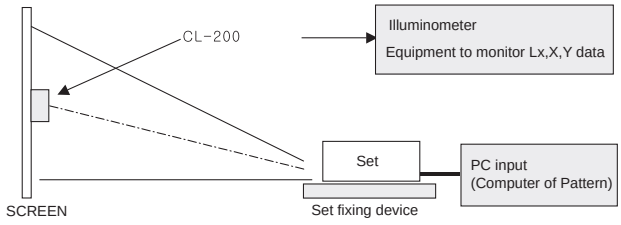
※. CWI/White Balance Measurement Condition

(1) CWI and White Balance is adjusted using a CL-200 or equivalent.
(2) Adjust the screen size to a minimum of 40 inches.
(3) Place the CL-200 on the center of projection screen.
(4) Make the measurement condition under 1Lux for CL-200 to measure the correct color coordinate.

8. CWI Adjustment

8-1. Setting of the Device

Set the equipment as <Fig. 8-1>.



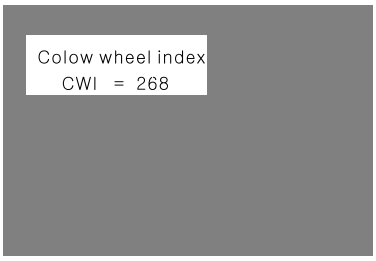
<Fig.8-1> Device setting diagram for CWI adjustment

8-2 Required Test Equipment

(1) Illuminometer (Model : CL-200) 1EA : Chromaticity measurement from projection screen center.
(2) PC input equipment (Pattern Generator, PC)
(3) Set fixing device 1EA
(4) Remote control 1EA

8-3. Preparation for Adjustment

(1) Connect the power cord and turn the set on, then connect it to a PC input.
(2) Enter the CWI menu by using the Instart key on the service remote. (Default value : 268)
(3) When entering CWI, a full red screen will display. At this time, see the Illuminometer color coordinates on the center.



<Fig.8-2> TEST pattern (RED pattern)

8-4. Sequence of Adjustment

(1) Adjust CWI to the left/right value by using the volume buttons at the first adjustment value is preset to 268.
(2) Illuminometer color coordinates change when pressing volume button.
(3) X coordinates usually get maximum value at X=0.630±0.02 and Y coordinates usually get minimum value at Y=0.350±0.02. Adjust this value by pressing volume button on the remote control. Adjustment range is usually 258~278 and average value is 268.
(4) Check the red pattern whether it is entirely uniform. If it is uniform then this setting is OK.

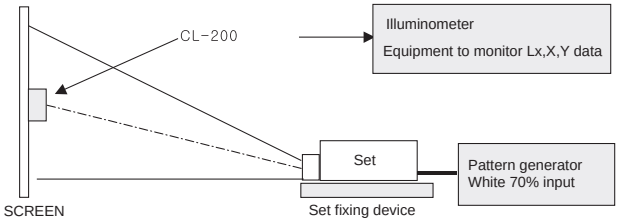
9. White Balance Adjustment

9-1. Required Test Equipment

(1) Illuminometer (Model : CL-200) 1EA : Chromaticity measurement from projection screen center
(2) Pattern Generator (DVI input)
(3) Set fixing device 1EA
(4) Remote control 1EA

9-2. Equipment Composition

(1) Compose the equipment as <Fig. 9>.



<Fig.9> Equipment composition Diagram

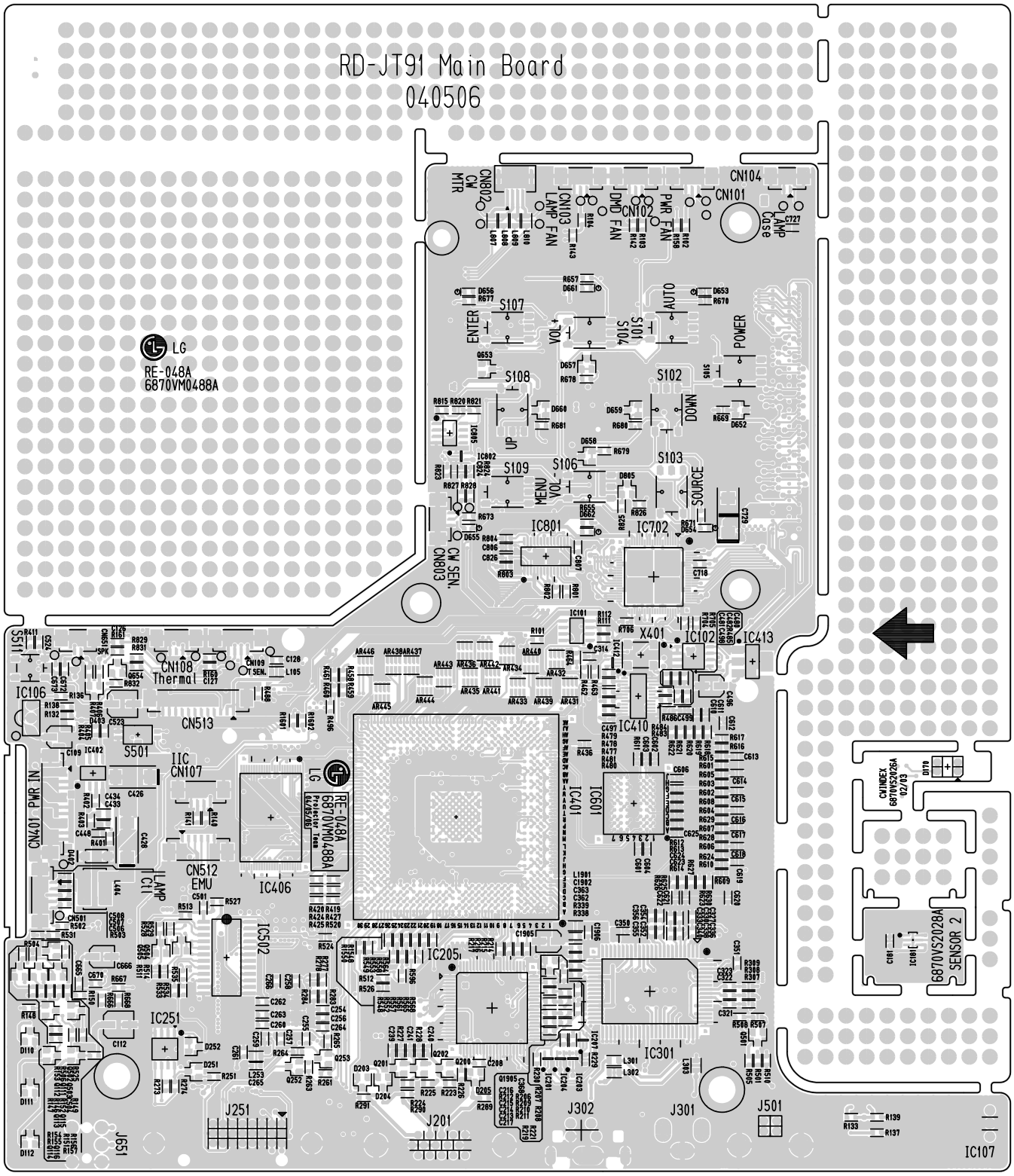
(2) It may use a pattern other than 70% white. Use a white pattern.
(3) Press the Instart key on the service remote to select white peaking and check the RGB/DVI peaking data should be set to 10.
(4) Press the Instart key on the service remote control to select White balance.
(5) Change X, Y as below seeing X and Y coordinate of illuminometer data.
  1) Standard color coordinate when adjusting Warm (6500±200 degree) mode
  : X=0.313±0.002, Y=0.329±0.002
  - Adjust the white X,Y
  (default : white X -> 9995, white Y -> 10992)
  2) Standard color coordinate when adjusting Cool (9300±200 degree) mode
  : X=0.283±0.002, Y=0.297±0.002)
  - Adjust the white Y
  (default : white X -> 9995, white Y -> 10992)

  ※ It is unnecessary for normal mode adjustment.(The remote control data does not become input)

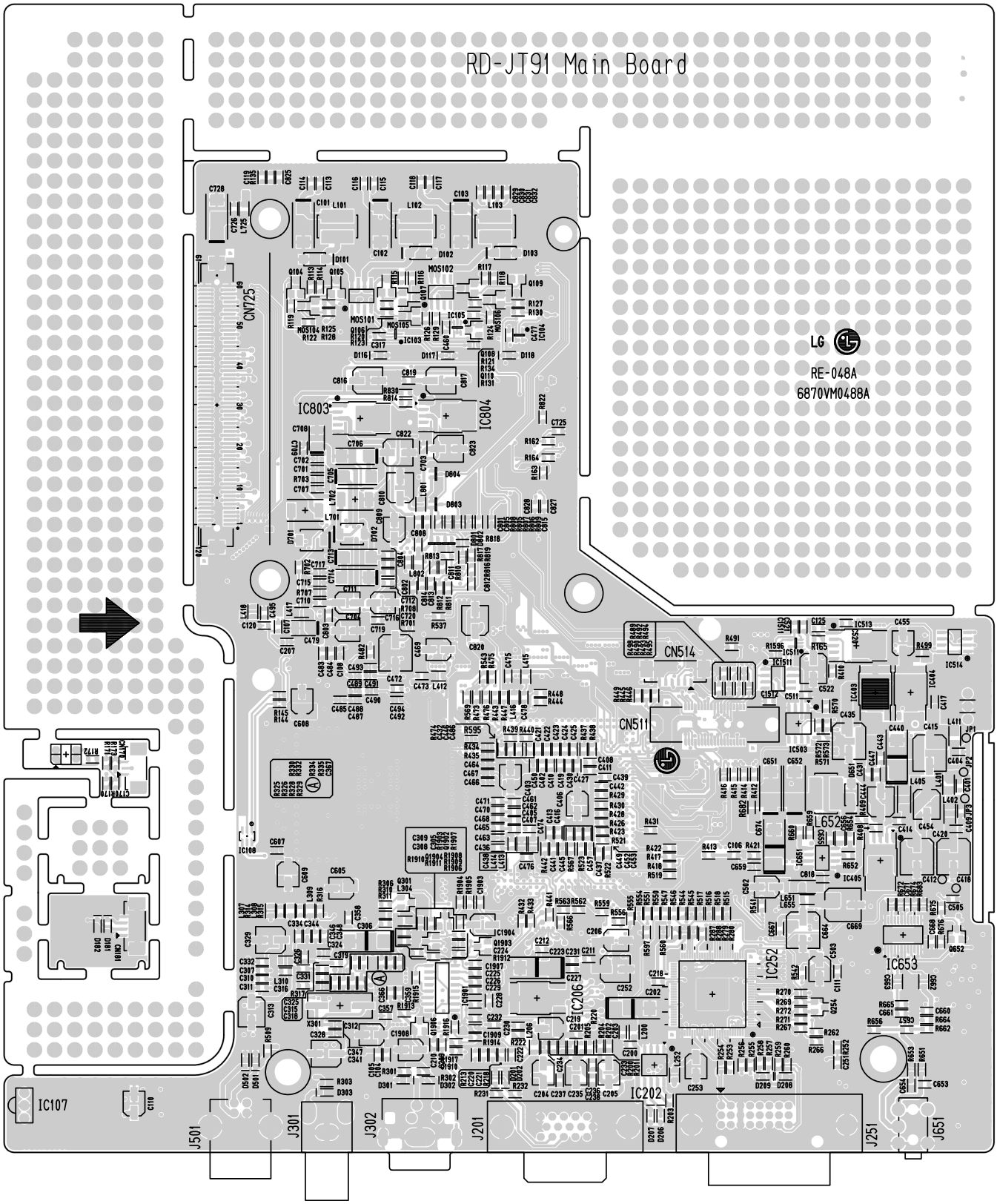
(6) Press the Instart key on the service remote to select white balance again and check the adjusted state of warm and cool. Then, select normal and exit the service menu.

PRINTED CIRCUIT BOARD

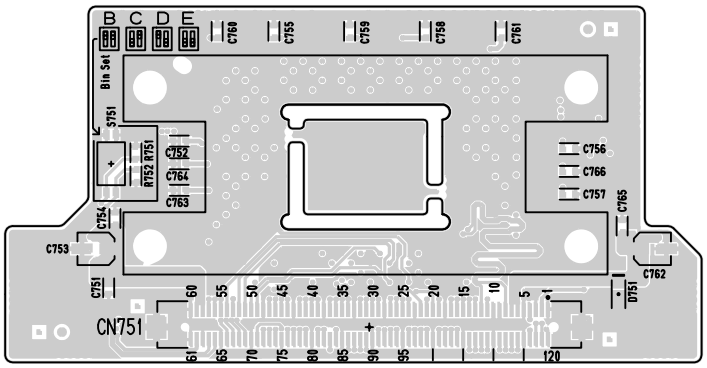
MAIN(TOP)



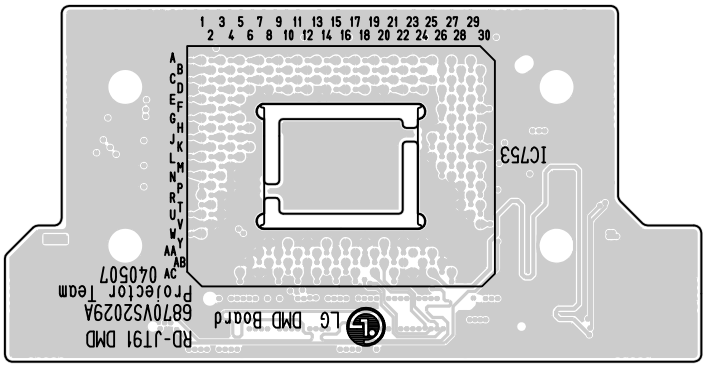
MAIN(BOTTOM)


RD-JT91 Main Board
LG
RE-048A
6870VM0488A
IC803
IC804
CN725
CN514
CN511
IC107
IC202
IC252
IC653
J501
J301
J302
J201
J251
J651

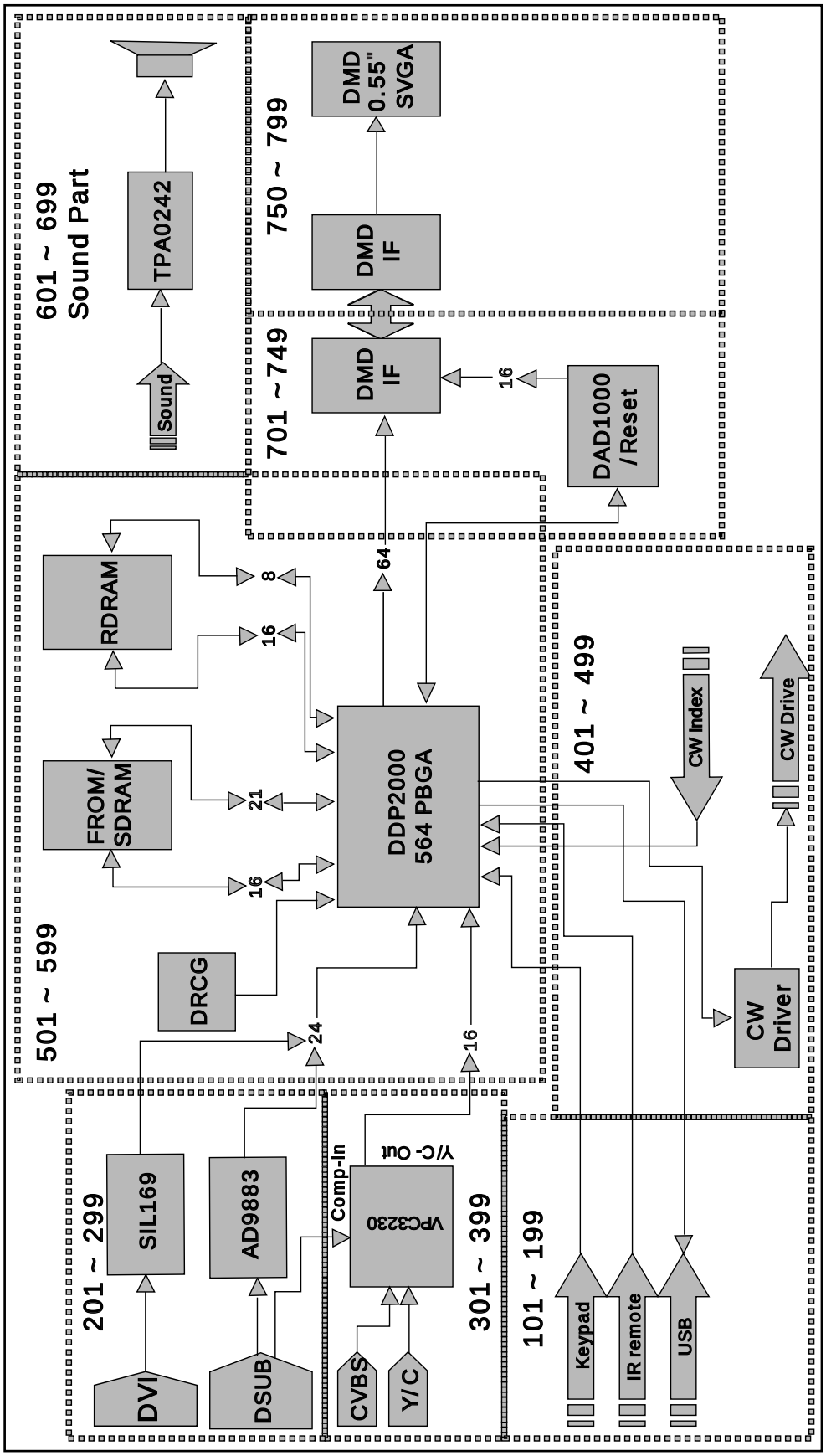
DMD(TOP)



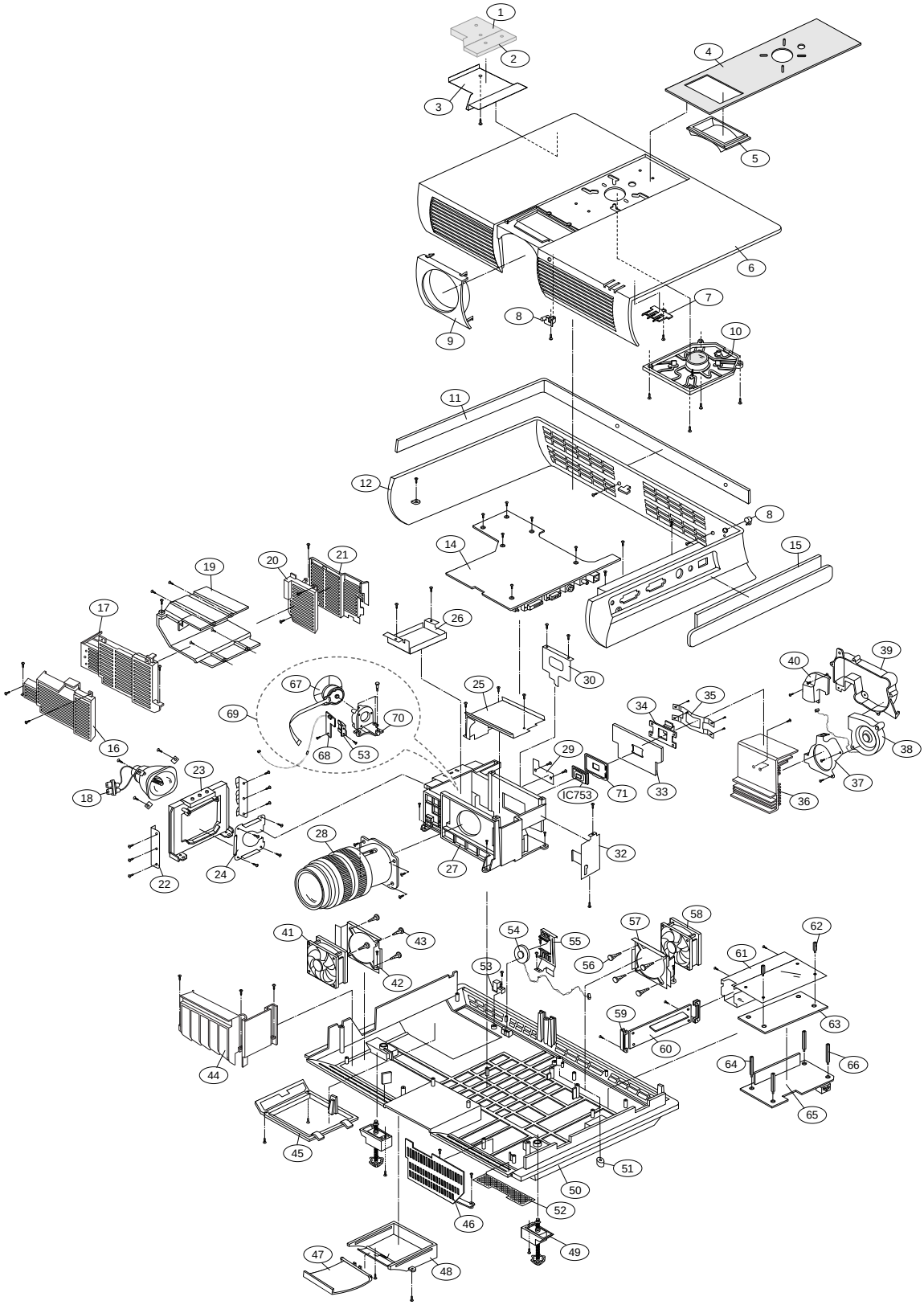
DMD(BOTTOM)



BLOCK DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	Part No.	Description
1	4850V00119A	CUSHION, SPONGE 75*40*12.5 SPONGE RD-JT91
2	4850V00118A	CUSHION, SPONGE 75*59*19.5 SPONGE RD-JT91
3	4930V00404B	HOLDER, SPONGE SUS304 T0.3 RD-JT91
4	3720V00264A	PANEL, CONTROL RD-JT91 ACRYL GE LAXAN
5	4810V01028A	BRACKET, TOP RD-JT91 RE03RA PC LENS
6	3550V00465A	COVER, TOP RD-JT91 MG CASE WAFFER
7	3520V00415A	INDICATOR, LED RD-JT91 PMMA 3 LIGHT
8	3790V00762A	WINDOW, PRE-AMP RD-JT91 PC REAR
9	3550V00482A	COVER, RD-JT91 PC LENS
10	5020V00941A	BUTTON, CONTROL RD-JT91 ABS, HF-380 4KEY ASSY”
11	4810V01051A	BRACKET, DECO RD-JT91 RE03RA PC-ABS SIDE REAR
12	4810V01032A	BRACKET, CASE RD-JT91 RE03RA PC-ABS SIDE REAR
14	3141VMNS56A	CHASSIS ASSEMBLY, MAIN RE048A MAIN PCB
15	3581V00041A	DOOR ASSEMBLY, ASSY RD-JT91 DOOR
16	4810V01054A	BRACKET, RD-JT91 RE03RA LCP+GF30%
17	4810V01053A	BRACKET, RD-JD91 RE03RA LCP+GF30%
18	6912B22008A	LAMP,HIGH PRESSURE MECURY, NSH200LGA USHIO 82V 2.4A 200W PROJECTOR
19	3550V00468A	COVER, LAMP RD-JT91
20	4810V01039A	BRACKET, COVER RD-JT91 PC-ABS BRACKET LOUVER INLET
21	4810V01038A	BRACKET, COVER RD-JT91 PC-ABS LOUVER_EXIT
22	4970V00065B	SPRING, PLATE SUS LAMP COVER
23	4930V00393A	HOLDER, LAMP LCP+GF30 RD-JT91
24	4814V00469B	SHIELD, PLATE RD-JT91 RE048A AL
25	3550V00466A	COVER, TOP CASE COVER RD-JT91 AL
26	3550V00467A	COVER, TOP COVER CW RD-JT91 AL RD-JT91
27	4810V01026A	BRACKET, FIXER OPTICAL CASE RD-JT91 RE048A MG
28	3680V00129A	LENS, COSINA LENS RD-JT91 .
29	4814V00474A	SHIELD, DMD BT RD-JT91 RE048A AL
30	4814V00472A	SHIELD, DMD UPPER RD-JT91 RE048A AL
32	4814V00473A	SHIELD, DMD LEFTRD-JT91 RE048A AL
33	6871VSMZ47A	PWB(PCB) ASSEMBLY,SUB DMD RE048A DMD
34	3300V00354B	PLATE, SHIELD AL RD-JT91
35	4970V00066B	SPRING, PLATE STSC304 RD-JT91
36	4920V00145B	HEAT SINK, EXTRUSION 65*68 RD-JT91
37	4930V00395A	HOLDER, BLOWER SECC RD-JT91
38	5900V05005A	FAN,DC A34860-58LG NIDEC 51MM*51MM*15MM 12V 3700RPM 7.0V - 13.8V RD-JT91 LAMP BULB COOLING FAN
39	3550V00469A	COVER, FAN BLOWER RD-JT91 PC
40	3550V00470A	COVER DUCT RD-JT91 PEEK
41	5900V08011A	FAN,DC 8412N/2GME PAPST 80*80*25.4MM 12V 2600RPM 8V - 15V RD-JT91 LAMP COOLING FAN
42	4810V01044A	BRACKET, DUCT LAMP FAN RD-JT91 RE048A SECC(EGI)
43	4972V00125B	FIXER, POLYURETHAN FANMOUNT RD-JT91 YELLOEW
44	4810V01049A	BRACKET, DUCT RD-JT91 RE03RA PC-ABS BLOW DIR
45	3550V00472A	COVER, LAMP RD-JT91 ASSY
46	3550V00505A	COVER, FRONT RD-JT91 PC GF35% BK
47	3580V00107A	DOOR, RD-JT91 PC LENS FRONT
48	4810V01040A	BRACKET, COVER RD-JT91 PC-ABS DOOR BOX
49	4778V00068C	LEG, ASSY RD-JT91 ABS, HF-380 FOR LEG”
50	3110V00404A	CASE, BOTTOM RD-JT91 MG WAFFER
51	4778V00109A	LEG, RUBBER RD-JT91 POLYURETHAN REAR
52	3530V00228B	GRILLE, RD-JT91 SUS 1.2PHY MESH 80
53	4930V00397A	HOLDER, SENSOR BOARD MOUNT PC+GF30 RD-JT91
54	6400TG0004B	SPEAKER,TWEETER T028S01K1454 ESTEC 8OHM 1.0/1.5W 78DB OTHERS D28*5.6MM FROM 6400TG0004A
55	4980V01096A	SUPPORTER, SPEAKER SUS RD-JT91
56	4972V00125A	FIXER, POLYURETHAN FANMOUNT RD-JT91 BLUE
57	4810V01052A	BRACKET, DUCT POWER FAN RD-JT91 RE048A SECC(EGI)
58	5900V08011B	FAN,DC 8412N/2GMLE PAPST 80*80*25.4MM 12V 2050RPM 8V - 15V RD-JT91 POWER BOARD COOLING FAN
59	4980V00B24A	SUPPORTER, PC-ABS BRACKET BALLASTER SUP
60	6316000008A	BALLAST, PHG161G7KM USHIO 200W PROJECTOR
61	3858V00070A	SHEET (MECH), PVC MAIN . SHIELD
62	4980V01097D	SUPPORTER, PCB MSWR RD-JT91
63	3501V00196A	BOARD ASSEMBLY, POWER RD-JT91 RE048A PV-JT91 POWER VALLEY SMPS BOARD
64	4980V01097C	SUPPORTER, PCB MSWR RD-JT91
65	3501V00196B	BOARD ASSEMBLY, POWER RD-JT91 RE048A PV-JT91 POWER VALLEY PFC BOARD
66	4980V01097E	SUPPORTER, PCB MSWR NICKLE PLATING RD-JT91
67	5230V00023A	FILTER(MECH), COLOR WHEEL RD-JT91 .
68	6871VSMZ48A	PWB(PCB) ASSEMBLY,SUB CW-INDEX RE048A CW_INDEX
69	3141VSNF28A	CHASSIS ASSEMBLY, SUB RE048A CW_INDEX
70	4810V01031A	BRACKET, FIXER MOTOR BRACKET RD-JT91 RE048A MG
71	4970V00067B	SPRING, PLATE 8614-002, C-SPRING, RD-JT91

REPLACEMENT PARTS LIST

LOCA. NO	PART NO	DESCRIPTION
	IC	
D170	0IMCRSH003A	GP2S40 SHARP 4P DIP ST PHOTOINTERRUPTER
IC101	0IMCRTI033A	TPS3307-25D TEXAS INSTRUMENT 8P/SOIC(D)
IC102	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P SOIC R/TP EEPROM
IC103	0IMCRSG007A	74VIT125CTR SGS-THOMSON 5P S0T323-5L
IC104	0IMCRSG007A	74VIT125CTR SGS-THOMSON 5P S0T323-5L
IC105	0IMCRSG007A	74VIT125CTR SGS-THOMSON 5P S0T323-5L
IC108	0IMCRTI034A	TMP101NA/3K TEXAS INSTRUMENT 6P/SOT23
IC1511	0IMCRTI020A	TLC7733ID TEXAS INSTRUMENT 8P SOP
IC181	0IMCRTI034A	TMP101NA/3K TEXAS INSTRUMENT 6P/SOT23
IC1901	0IFA741230A	DM74LS123MX 16SOP TP DUAL RETRIG. MONO
IC202	0IAL242110A	AT24C21-10SI-2.5 8P,SOP TP 1K EEPROM
IC203	0IMCRSG008A	74LX1G14CTR SGS-THOMSON 5P SOT323-5L
IC203	0IMCRSG007A	74VIT125CTR SGS-THOMSON 5P S0T323-5L
IC204	0IMCRSG008A	74LX1G14CTR SGS-THOMSON 5P SOT323-5L
IC204	0IMCRSG007A	74VIT125CTR SGS-THOMSON 5P S0T323-5L
IC205	0IMCRAD002A	AD9883AKST-110 ANALOG DEVICE 80P TQFP
IC206	0IMCRKE008A	KIA78D33F KEC 3P DPAK R/TP 3.3V LDO
IC251	0IAL242110A	AT24C21-10SI-2.5 8P,SOP TP 1K EEPROM
IC252	0IMCRS5003A	SIL169CT100 SILICON IMAGE 100P LQFP
IC301	0IIT323000E	VPC3230D C5 80P QFP
IC401	0IMCRTI029A	DDP2000 564P PBGA TRAY DLP IMAGE PROCESSOR
IC402	0IPMGSG024A	L5973ADTR SGS-THOMSON 8P/HSOP
IC403	0IPMGSG023A	LD29150DT25R SGS-THOMSON 3P/D-PAK
IC404	0IPMGSG018D	LD1086DT18TR SGS-THOMSON 3P,DPAK
IC405	0IPRPSH001A	PQ20WZ1U SHARP 5P SC63
IC406	0IMMRAL043A	AT49BV162A-70TI ATMEL 48P/TSOP
IC410	0IMCRTI014A	CDCR83 24P STOP
IC412	0IMCRSG008A	74LX1G14CTR SGS-THOMSON 5P SOT323-5L
IC413	0ISJ111733A	EZ1117CST-3.3 3P,SOT-223 TP 3.3V CHIP
IC502	0IMCRMI032A	M62392FP 24P SOP ST D/A CONVERTER
IC503	0IMCRMX001A	MAX708SCSA MAXIM 8P SOP R/TP RESET
IC512	0IMCRSG007A	74VIT125CTR SGS-THOMSON 5P S0T323-5L
IC601	0IMMRSS053B	K4R271669F-TCS8 54P UBGA TRAY RDRAM 128MBIT
IC651	0IPMGSG024A	L5973ADTR SGS-THOMSON 8P/HSOP
IC653	0IMCRTI007A	TPA0242PWP 24PIN R/TP STEREO AUDIO AMP
IC702	0IMCRTI012B	2503253-0003(DAD1000-3) 80P PQFP
IC753	0IMCRTI030A	8060-624C TEXAS INSTRUMENT 152P
IC801	0IMCRAG001A	A8904SLP 28P/HTSSOP
IC802	0IMCRSG007A	74VIT125CTR SGS-THOMSON 5P S0T323-5L
IC803	0ISH121100D	PQ12DZ1U 5 SMD
IC804	0ISH121100D	PQ12DZ1U 5 SMD
IC805	0IMCRFA003A	KA2903 FAIRCHILD 8SOP R/TP AMPLIFIER
	TRANSISTOR	
MOS101	0TFVI80005A	VISHAY SI4963DY R/TP SO-8 -20V 6.2A
MOS102	0TFVI80005A	VISHAY SI4963DY R/TP SO-8 -20V 6.2A
MOS104	0TFFC80046A	FDV301N FAIRCHILD R/TP SOT23 25V 0.22A
MOS105	0TFFC80046A	FDV301N FAIRCHILD R/TP SOT23 25V 0.22A
MOS106	0TFFC80046A	FDV301N FAIRCHILD R/TP SOT23 25V 0.22A
Q101	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q102	0TR387500AA	CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q103	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q104	0TR222209AB	KTN2222AS NPN MMBT2222A TP KEC - -
Q105	0TRKE80040A	KTN2907AS(ZH) KEC R/TP SOT23 -5V -600MA
Q106	0TR222209AB	KTN2222AS NPN MMBT2222A TP KEC - -
Q107	0TRKE80040A	KTN2907AS(ZH) KEC R/TP SOT23 -5V -600MA
Q108	0TR222209AB	KTN2222AS NPN MMBT2222A TP KEC - -
Q109	0TRKE80040A	KTN2907AS(ZH) KEC R/TP SOT23 -5V -600MA
Q110	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q111	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q112	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q114	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q115	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q116	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1901	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1902	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1903	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1904	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q1905	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q1906	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q200	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q201	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q202	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q252	0TFRH80001A	RK7002T116 ROHM KOREA R/TP SOT23 60V 115MA
Q253	0TFRH80001A	RK7002T116 ROHM KOREA R/TP SOT23 60V 115MA
Q254	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q301	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q501	0TR150400BA	CHIP 2SA1504S(ASY) KEC
Q502	0TR387500AA	CHIP 2SC3875S(ALY) KEC
Q502	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q503	0TR102009AG	CHIP KRC102S KEC TP SOT-23 NA NA
Q504	0TFRH80001A	RK7002T116 ROHM KOREA R/TP SOT23 60V 115MA
Q505	0TFRH80001A	RK7002T116 ROHM KOREA R/TP SOT23 60V 115MA
Q653	0TR150400BA	CHIP 2SA1504S(ASY) KEC
	DIODE	
D101	0DRDI00028B	B350A DIODES R/TP SMA 35V 3A 100A NSEC 0.7MA
D102	0DRDI00028B	B350A DIODES R/TP SMA 35V 3A 100A NSEC 0.7MA
D103	0DRDI00028B	B350A DIODES R/TP SMA 35V 3A 100A NSEC 0.7MA
D110	0DL233309AC	LED, SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
D111	0DL233309AC	LED, SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
D112	0DL233309AC	LED, SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
D116	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D117	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D118	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D181	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D182	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D201	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D202	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D203	0DD226239AA	CHIP KDS226 SOT-23
D204	0DD226239AA	CHIP KDS226 SOT-23
D205	0DD226239AA	CHIP KDS226 SOT-23
D206	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM

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LOCA. NO	PART NO	DESCRIPTION
D207	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D208	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D209	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D251	0DD184009AA	KDS184S CHIP 85V 300MA KEC TP
D252	0DL233309AC	LED,SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
D301	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D302	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D303	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D402	0DRDI00028B	B350A R/TP SMA 35V 3A 100A NSEC 0.7MA
D403	0DL233309AC	LED,SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD
D501	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D502	0DZRM00178A	ZENERSUDZS TE-17 5.1B ROHM
D651	0DRDI00028B	B350A DIODES R/TP SMA 35V 3A 100A NSEC 0.7MA
D652	0DL243409AB	LED,SB2434-H TP KWANG BLUE 30MCD
D653	0DLOR0018AA	LED,LWQ183-Q1Q2-3-1 R/TP WHITE 71-112MCD
D654	0DLOR0018AA	LED,LWQ183-Q1Q2-3-1 R/TP WHITE 71-112MCD
D655	0DLOR0018AA	LED,LWQ183-Q1Q2-3-1 R/TP WHITE 71-112MCD
D656	0DLOR0018AA	LED,LWQ183-Q1Q2-3-1 R/TP WHITE 71-112MCD
D657	0DL243409AB	LED,SB2434-H TP KWANG BLUE 30MCD
D658	0DL243409AB	LED,SB2434-H TP KWANG BLUE 30MCD
D659	0DL243409AB	LED,SB2434-H TP KWANG BLUE 30MCD
D660	0DL243409AB	LED,SB2434-H TP KWANG BLUE 30MCD
D661	0DLOR0018AA	LED,LWQ183-Q1Q2-3-1 R/TP WHITE 71-112MCD
D662	0DLOR0018AA	LED,LWQ183-Q1Q2-3-1 R/TP WHITE 71-112MCD
D701	0DRGS00328A	SS26 R/TP DO-214AC 60V 2A 75A .SEC 10MA
D702	0DRGS00328A	SS26 R/TP DO-214AC 60V 2A 75A .SEC 10MA
D751	0DZVH00118A	ZENERSGZF8V2C R/TP SMD 0.8W 7.7-8.7V 100MA .PF
D801	0DRON00088A	BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D802	0DRON00088A	BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D803	0DRON00088A	BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D804	0DRON00088A	BAT54SWT1 ON SEMI R/TP D-PAK 60V 3A 4A .SEC .A
D805	0DL233309AC	LED,SAM2333 GREEN/RED GREEN:10MCD, RED:6MCD

CAPACITOR

LOCA. NO	PART NO	DESCRIPTION
C104	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C105	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C106	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C107	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C108	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C109	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C110	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C111	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C112	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C113	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C114	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C115	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C116	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C117	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C118	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C119	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C120	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C120	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R

LOCA. NO	PART NO	DESCRIPTION
C121	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C122	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C125	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C126	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C127	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C128	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C128	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C1511	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C1512	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C170	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C181	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C1902	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C1903	0CK332CK56A	3.3NF 1608 50V 10% R/TP X7R
C1904	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C1905	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C1906	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C1907	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C1908	0CE106SH6DC	10UF MVG 25V M SMD R/TP
C1909	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C1910	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C200	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C201	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C203	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C204	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C205	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C206	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C207	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C208	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C209	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C210	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C211	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C212	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C213	0CK473CH56A	0.047UF 1608 25V 10% R/TP X7R
C214	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C215	0CK473CH56A	0.047UF 1608 25V 10% R/TP X7R
C216	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C217	0CK473CH56A	0.047UF 1608 25V 10% R/TP X7R
C218	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C219	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C220	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C221	0CK823CFF6A	0.082UF 1608 16V 5%,-5% X7R R/TP
C222	0CK822CK56A	8200PF 1608 50V 10% X7R R/TP
C224	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C225	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C226	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C227	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C228	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C229	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C230	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C231	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C232	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C233	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R

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LOCA. NO	PART NO	DESCRIPTION
C234	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C235	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C236	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C237	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C238	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C239	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C240	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C241	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C251	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C252	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C253	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C254	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C255	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C256	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C257	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C258	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C259	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C260	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C261	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C262	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C263	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C264	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C265	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C266	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C304	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C305	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C307	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C307	0CK821CK56A	820PF 1608 50V 10% R/TP X7R
C308	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C309	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C310	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C311	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C312	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C313	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C314	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C315	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C316	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C317	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C318	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C319	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C321	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C322	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C323	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C324	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C325	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C326	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C327	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C328	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C329	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C330	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C331	0CK473CH56A	0.047UF 1608 25V 10% R/TP X7R
C332	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R

LOCA. NO	PART NO	DESCRIPTION
C333	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
C334	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C336	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C338	0CE2253K618	2.2UF SRE,SE 50V 20% FL TP 5
C338	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C340	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C341	0CC050CK11A	5PF 1608 50V 0.5 PF R/TP NP0
C344	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C346	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C347	0CC050CK11A	5PF 1608 50V 0.5 PF R/TP NP0
C348	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C350	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C351	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C352	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C354	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C355	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C356	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C357	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C358	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C359	0CK683CKG6A	0.068UF 1608 50V 10%,-10% X7R R/TP
C362	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C363	0CK473CH56A	0.047UF 1608 25V 10% R/TP X7R
C366	0CK683CKG6A	0.068UF 1608 50V 10%,-10% X7R R/TP
C367	0CK683CKG6A	0.068UF 1608 50V 10%,-10% X7R R/TP
C401	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C402	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C403	0CE336SH6DC	33UF MVG 25V M SMD R/TP
C403	0CE336SC6DC	33UF MVG 6.3V M SMD R/TP
C404	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C405	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C406	0CE336SH6DC	33UF MVG 25V M SMD R/TP
C406	0CE336SC6DC	33UF MVG 6.3V M SMD R/TP
C407	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C408	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C409	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C410	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C411	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C412	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C413	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C414	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C415	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C416	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C417	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C418	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C419	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C420	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C421	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C422	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C423	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C424	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C425	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C427	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0

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LOCA. NO	PART NO	DESCRIPTION
C430	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C431	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C432	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C433	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
C435	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C436	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C437	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C438	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C439	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C440	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C441	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C442	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C443	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C444	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C445	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C446	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C447	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C448	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C449	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C450	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C452	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C453	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C454	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C455	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C457	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C460	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C461	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C462	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C463	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C464	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C465	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C466	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C467	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C468	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C469	0CE106SH6DC	10UF MVG 25V M SMD R/TP
C470	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C471	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C472	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C473	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C474	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C475	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C476	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C477	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C478	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C479	0CE106SH6DC	10UF MVG 25V M SMD R/TP
C480	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C481	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C482	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C483	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C484	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C485	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C486	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R

LOCA. NO	PART NO	DESCRIPTION
C487	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C488	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C489	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C490	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C491	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C492	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
C493	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C494	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C495	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C496	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C497	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C498	0CK4R7CKFDA	4.7PF 1608 50V 5%,-5% COG R/TP
C499	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C501	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C502	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C503	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C504	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C505	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C506	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C507	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C508	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C511	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C523	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C601	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C602	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C603	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C604	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C605	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C606	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C607	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C608	0CE106SH6DC	10UF MVG 25V M SMD R/TP
C609	0CE106SH6DC	10UF MVG 25V M SMD R/TP
C610	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C611	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C611	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C612	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C612	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C613	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C613	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C614	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C614	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C615	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C615	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C616	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C616	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C617	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C617	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C618	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C618	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C619	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C619	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C620	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0

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LOCA. NO	PART NO	DESCRIPTION
C620	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C621	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C621	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C622	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C622	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C623	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C624	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C625	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C653	0CK471CK56A	470PF 1608 50V 10% R/TP X7R
C654	0CK471CK56A	470PF 1608 50V 10% R/TP X7R
C655	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
C657	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C657	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C659	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C662	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C663	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C664	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C665	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C666	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C667	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C668	0CK472CK56A	4700PF 1608 50V 10% R/TP X7R
C669	0CE107SF6DC	100UF MVG 16V M SMD R/TP
C670	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C671	0CK103CK56A	0.01UF 1608 50V 10% R/TP X7R
C672	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C673	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C701	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C702	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C703	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C704	0CE106SH6DC	10UF MVG 25V M SMD R/TP
C707	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C709	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C710	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C711	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C712	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C715	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C716	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C717	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C718	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C719	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C720	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C725	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C726	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C727	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C751	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C752	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C753	0CE226SF6DC	22UF MVG 16V 20% SMD R/TP
C754	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C755	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C756	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C757	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C758	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R

LOCA. NO	PART NO	DESCRIPTION
C759	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C760	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C761	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C762	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C763	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C764	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C765	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C766	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C801	0CK272CK46A	2700PF 1608 50V 5% X7R R/TP
C802	0CK472CK56A	4700PF 1608 50V 10% R/TP X7R
C803	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C804	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C805	0CK272CK46A	2700PF 1608 50V 5% X7R R/TP
C806	0CK224CFG6A	0.22UF 1608 16V 10%,-10% X7R R/TP
C807	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C808	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C809	0CE105SK6DC	1UF MVG 50V M SMD R/TP
C810	0CE336SH6DC	33UF MVG 25V M SMD R/TP
C811	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C812	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C813	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
C815	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C816	0CE336SH6DC	33UF MVG 25V M SMD R/TP
C817	0CE336SH6DC	33UF MVG 25V M SMD R/TP
C818	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C819	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C820	0CE476SF6DC	47UF MVG 16V M SMD R/TP
C822	0CE336SH6DC	33UF MVG 25V M SMD R/TP
C823	0CE336SH6DC	33UF MVG 25V M SMD R/TP
C824	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C825	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C826	0CK104CF56A	0.1UF 1608 16V 10% R/TP X7R
C827	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C828	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C829	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C830	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C831	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C832	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
CONNECTOR		
CN725	6630B00021A	BOARD TO BOARD KX14-120K5DE 120P 0.8MM 120P
CN751	6630B00022A	BOARD TO BOARD KX15-50KLDLE 120P 0.8MM 120P
J201	6630TGA004F	KCN-DS-3-0062 KSD 15P 2.29MM SHORT(8MM)
J251	6630GZ00724	67351-4006 24P 1.91MM DVI-D RIGHT ANGLE
JACK		
J301	380-336G	RCAWA6013-32-40 A/V 1P SWITCH YL H=8
J302	380-363K	DINPJ6046G H=8.0 W/O S/W,W/SHIELD,W/O
J501	6612B00003A	DINKJA-UB-3-0006 KSD USB UPSTREAM
J651	6612VCH002A	PPJ35F AUDIO IN D3.6,H=2.5 LP-XG1

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LOCA. NO	PART NO	DESCRIPTION
COIL		
L101	6140VB0028A	COIL,CHOKE SP5845-680 GET 68UH SMD
L102	6140VB0028A	COIL,CHOKE SP5845-680 GET 68UH SMD
L103	6140VB0028A	COIL,CHOKE SP5845-680 GET 68UH SMD
L404	6140VB0027A	COIL,CHOKE SP5845-150 GET 15UH SMD
L652	6140VB0027A	COIL,CHOKE SP5845-150 GET 15UH SMD
L701	6140VR0007A	COIL,ENERGY RECOVERYDT1608C-223
L702	6140VR0007A	COIL,ENERGY RECOVERYDT1608C-223
RESISTOR		
AR431	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR432	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR433	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR434	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR435	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR436	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR437	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR438	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR439	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR440	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR441	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR442	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR443	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR444	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR445	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
AR446	0RRZVTA001D	22 OHM 1 / 16 W 1608 5% R/TP 4P E24 SERIES
SWITCH		
S101	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S102	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S103	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S104	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S105	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S106	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S107	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S108	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S109	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
S511	6600VR1004A	SKHMPW 5P CHIP TACT J-ALPS
FILTER & CRYSTAL		
L401	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/TP
L402	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/TP
L405	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/TP
L411	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/TP
L651	6210TCE001G	HH-1M3216-501 CERATEC 3216MM R/TP
X301	6202VDT002E	RESONATOR, SX-1SMD 20250000HZ 30PPM 16PF TP
MISCELLANEOUS		
IC106	6712000002B	REMOTE CONTROLLER RECEIVER,KSM-603SM12E-1
IC107	6712000002B	REMOTE CONTROLLER RECEIVER,KSM-603SM12E-1
X401	6204B48342A	OSCILLATOR,ASY-137-50MHZ-T 50.00MHZ +/- 25 PPM 3.3V

LOCA. NO	PART NO	DESCRIPTION
ACCESSORIES		
A1	3828VA0482B	MANUAL,OWNERSRE048A RD-JT91/2 LG EN, 373-026H
A2	6710V00133A	REMOTE CONTROLLERRE03RA RD-JT91
A3	6410VOH001A	POWER CORD,SP80A+IS034 H05VV-F 1800MM 3P
A3	6410VBH005A	POWER COR,DSP60+IS034 H05VV-F 1800MM 3P
A3	6410VUH007A	POWER CORD,SP305+IS034 SVT18AWG*3C 1800MM
A3	6410VEH008A	POWER CORD,SP022+IS034 H05VV-F 3G 1800MM
A4	6850F00004A	CABLE, D-SUB TO RCA UL2919 AWG28 1800MM
A5	6850J00003A	CABLE,DVI-D TO DVI-D UL20276 AWG28 3000MM
A6	6852VA0001A	CORD,A/VPHONO 3000 RCA 1PICE NON UL 1P
A7	6866VA9001A	CONNECTOR (CIRC),D-SUB2990-9C,AT,L1830,COOL

VIDEO INPUT

VGA ANALOG INPUT

PQ20WZ11 High - On / Low - Off

L5973AD Inh High - Off / Low - On

SENSOR BOARD

COLOR WHEEL INDEX BOARD

RAMBUS MEMORY

ASIC INPUT AND DMD INTERFACES

INTERFACE TO SVGA DMD

CLOCK GENERATION

ARM/PERIPHERAL

ARM/PERIPHERAL CONT.

Power Fan

Blower Fan

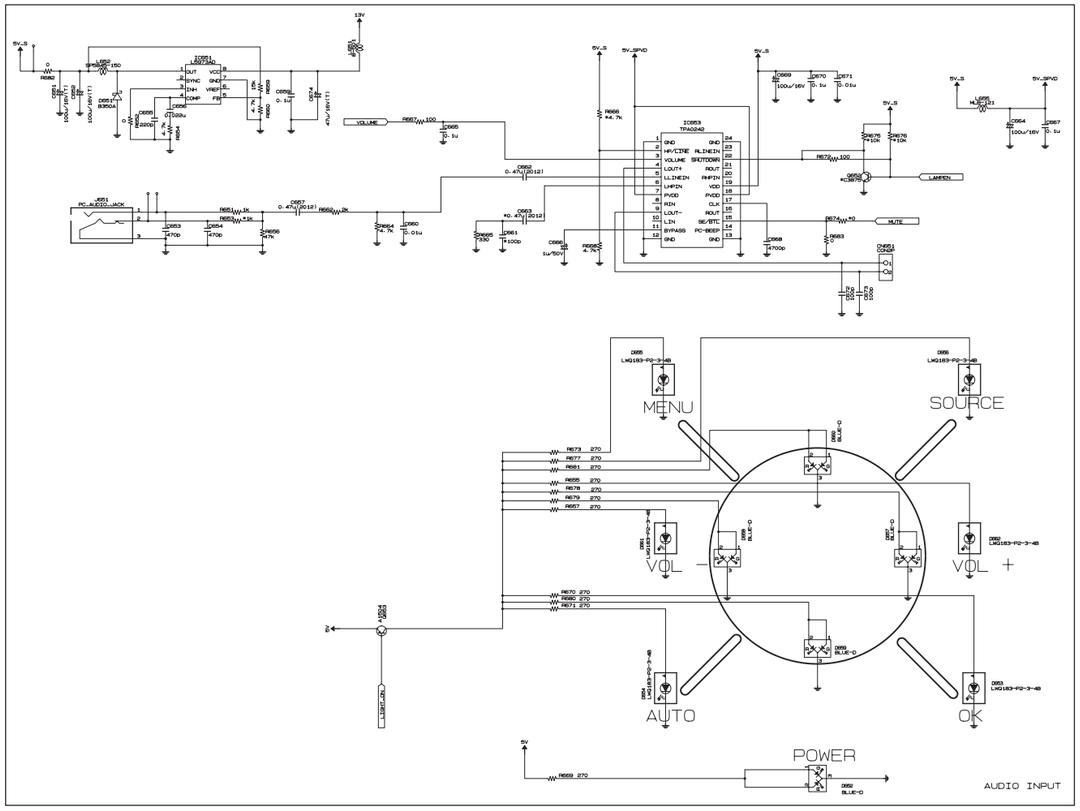
Lamp Fan

Thermal Protect

Case Detect

Temp Sensor

DAD1000 RESET DRIVER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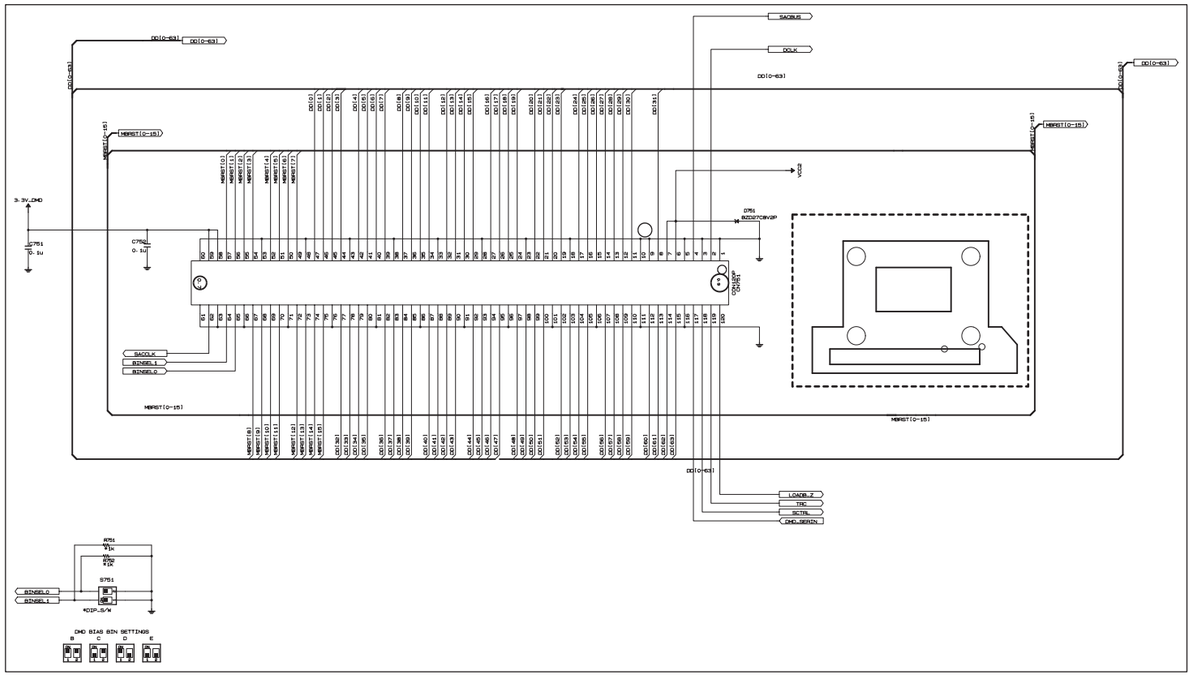
AUTO
OK
POWER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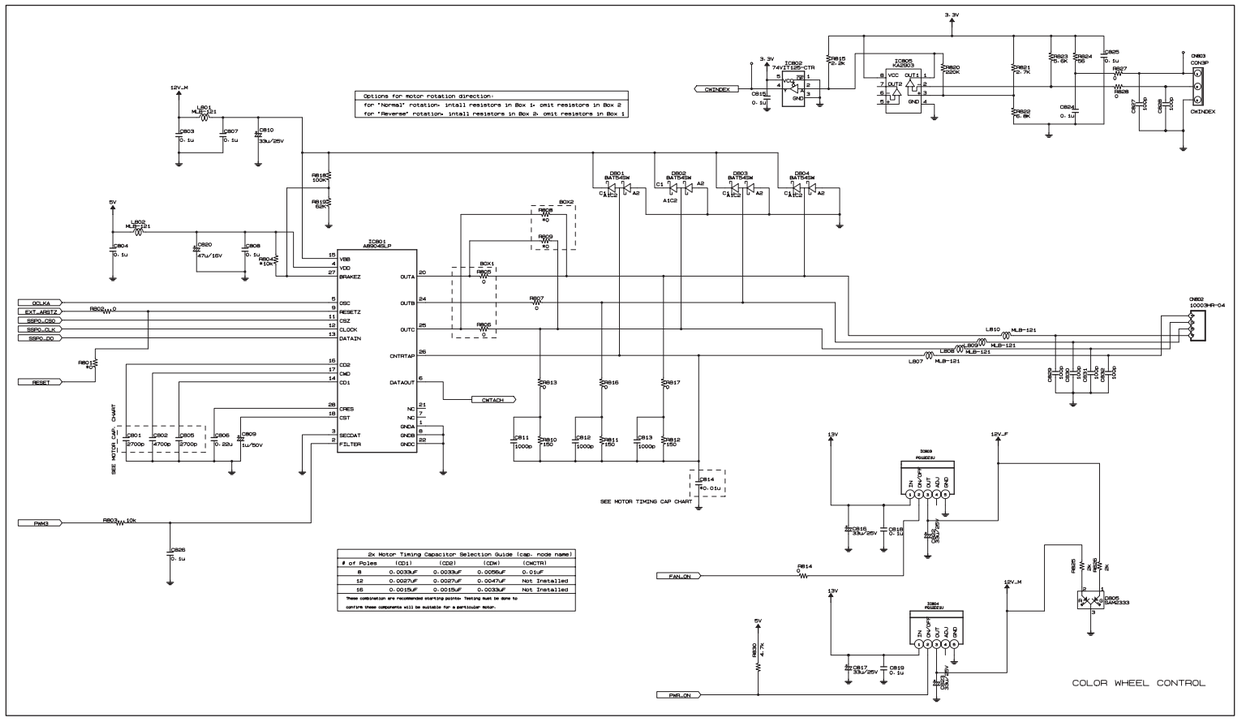
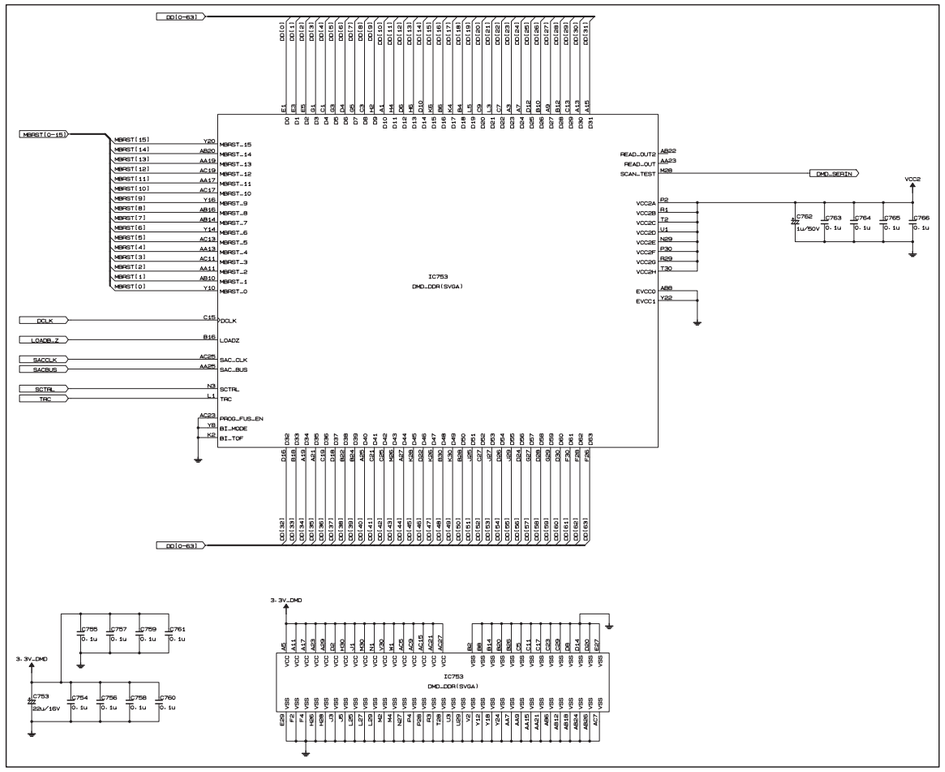

COLOR WHEEL CONTROL


DMD_DDR(SVGA)

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